

E14 1 THEASAPOPENOL A/CN
 E15 1 THEASAPOPENOL A, CYCLIC ACETAL WITH ACETONE/CN
 E16 1 THEASAPOPENOL A, PENTAACETATE/CN
 E17 1 THEASAPOPENOL A, TETRAACETATE/CN
 E18 1 THEASAPOPENOL B/CN
 E19 1 THEASAPOPENOL C/CN
 E20 1 THEASAPOPENOL D/CN
 E21 1 THEASAPOPENOL E/CN
 E22 1 THEASAPOPENOL E, TETRAACETATE/CN
 E23 1 THEASAPOPENOL F/CN
 E24 1 THEASAPONIN/CN
 E25 1 THEASAPONIN A1/CN

=> S E3

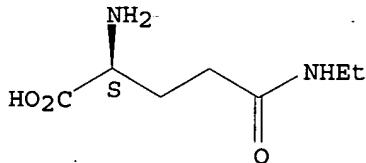
L1 1 THEANINE/CN

=> DIS L1 1 IDE

THE ESTIMATED COST FOR THIS REQUEST IS 1.90 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 3081-61-6 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN L-Glutamine, N-ethyl- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Glutamine, N-ethyl-, L- (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN L-Theanine
 CN NSC 21308
 CN Suntheanine
 CN Theanin
 CN Theanine
 FS STEREOSEARCH
 MF C7 H14 N2 O3
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, CA, CABA,
 CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CSCHEM, IPA, MEDLINE,
 NAPRALERT, PROMT, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

562 REFERENCES IN FILE CA (1907 TO DATE)
 5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 566 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 24 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus medline biosis embase
 COST IN U.S. DOLLARS

| SINCE FILE ENTRY | TOTAL SESSION |
|---------------------|------------------|
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FULL ESTIMATED COST

7.54

10.90

FILE 'CAPLUS' ENTERED AT 09:28:47 ON 14 NOV 2006
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FILE 'BIOSIS' ENTERED AT 09:28:47 ON 14 NOV 2006
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FILE 'EMBASE' ENTERED AT 09:28:47 ON 14 NOV 2006
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=> s 3081-61-6
L2 761 3081-61-6

=> s mood(w)disorder or bipolar(w)disorder
L3 63823 MOOD(W) DISORDER OR BIPOLAR(W) DISORDER

=> s 12 and 13
L4 3 L2 AND L3

=> d ti au abs so py 1-3

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
TI Compositions comprising theanine for treating or preventing mood
disorders
IN Ozeki, Makoto; Juneja, Lekh Raj; Okubo, Tsutomu
AB A pharmaceutical composition for treating or preventing mood
disorders, as well as a food or beverage for ameliorating or
preventing mood disorders comprising theanine are
provided. The pharmaceutical composition and the food and beverage are safe
and have a significant suppressive effect on the depression in a
mood disorder. For example, tablets were prepared by
mixing frosted sugar 71.67%, trehalose 10%, L-theanine 13.33%, sucrose
fatty acid ester 1%, and lemon flavor 4%, the mixture was granulated and
compressed into a tablet of 0.75 g. The therapeutic effects of theanine
tablets (200 mg theanine as one tablet twice a day) were demonstrated in
patients with mood disorders with no side effects.
SO Can. Pat. Appl., 35 pp.
CODEN: CPXXEB
PY 2005

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
TI Composition and method for treatment of neurophysiological conditions and
maintenance of neurophysiological health
IN McCleary, Edward Larry; Forest, Carl A.; McCleary, Christine
AB A composition and method for therapeutic treatment of undesirable neurophysiol.
conditions, such as those associated with menopause, the peri-menstrual
period, mental conditions such as mood disorders,
hyperactivity, impulsiveness, difficulty concentrating, chronic pain
conditions,
and including neurodegenerative disorders such as age-associated or
acoustic-related hearing loss, central, peripheral or autonomic
neuropathies and for maintenance of neurophysiol. health, the composition
comprising (i) an effective amount of three agents selected from the group
consisting of vincocetine, huperzine A, magnesium, theanine, pyro-glutamic
acid, dextromethorphan, and Vitex agnus-castus fruit; (ii) one agent
selected from the group consisting of thiamin, niacin, pyridoxine,
vanadium, and acetaminophen; and (iii) three agents selected from the
group consisting of Valerian spp., Passiflora spp., magnolia spp.,
Scutellaria spp., taurine, melatonin, GABA and black cohosh. The composition

may also include an effective amount of an agent selected from the group consisting of white willow bark, dehydroepiandrosterone (DHEA), pregnenolone, ketone bodies, 5-hydroxytryptophan (5-HTP) and a racemic mixture of D,L-phenylalanine (DLPA). The method comprises administering the above composition to a human for a therapeutically effective period. The composition may also be combined with a food, beverage, condiment, spice or salad dressing base to provide a food, beverage, condiment, spice or salad dressing product designed to overcome or prevent undesirable conditions frequently associated with menopause, chronic pain or neurophysiol. degeneration. For example, a formulation for menopausal women with a wide, but fairly typical, symptom profile including hot flash symptoms, night sweats, intermittent irritability, and mild memory concerns contained a combination of magnesium 400 mg, vinpocetine 2 mg, huperzine 50 µg, theanine 100 mg, pyridoxine 20 mg, valerian extract 100 mg, taurine 150 mg, and magnolia extract 700 mg.

SO U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U.S. Ser. No. 890,067.
CODEN: USXXCO

PY 2005
2002
2005
2004
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2005
2006
2006
2006

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
TI Theanine for control of mood disorders
IN Koseki, Makoto; Okubo, Tsutomu; Juneja, Reka Raju; Yamazaki, Nagahiro
AB Theanine (I) prepared from tea extract or by enzymic preparation from glutamine and ethylamine by glutaminase is used to prepare health food for control of mood disorders. Preparation of I-containing candies for control of mood disorders was shown. Unlike tricyclic antidepressant amitriptyline hydrochloride, I does not have side-effects such as drowsy and constipation.

SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
PY 2003
2004

=> s despress?
L5 22 DESPRESS?

=> s depress?
L6 948764 DEPRESS?

=> s 12 and 16
L7 19 L2 AND L6

=> dup rem
ENTER L# LIST OR (END):17
PROCESSING COMPLETED FOR L7
L8 16 DUP REM L7 (3 DUPLICATES REMOVED)
ANSWERS '1-11' FROM FILE CAPLUS
ANSWERS '12-13' FROM FILE MEDLINE
ANSWERS '14-16' FROM FILE BIOSIS

=> d ti au so py 1-16

L8 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1
TI Effect of theanine on norepinephrine and serotonin levels in rat brain

AU Kimura, Ryohei; Murata, Toshiro
SO Chemical & Pharmaceutical Bulletin (1986), 34(7), 3053-7
CODEN: CPBTAL; ISSN: 0009-2363
PY 1986

L8 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 2
TI Effect of alkylamides of glutamic acid and related compounds on the central nervous system. III. Effect of theanine on the spontaneous activity of mice
AU Kimura, Ryohei; Kurita, Masako; Murata, Toshiro
SO Yakugaku Zasshi (1975), 95(7), 892-5
CODEN: YKKZAJ; ISSN: 0031-6903
PY 1975

L8 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 3
TI Influence of alkylamides of glutamic acid and related compounds on the central nervous system. I. Central depressant effect of theanine
AU Kimura, Ryohei; Murata, Toshiro
SO Chemical & Pharmaceutical Bulletin (1971), 19(6), 1257-61
CODEN: CPBTAL; ISSN: 0009-2363
PY 1971

L8 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
TI Compositions comprising theanine for treating or preventing mood disorders
IN Ozeki, Makoto; Juneja, Lekh Raj; Okubo, Tsutomu
SO Can. Pat. Appl., 35 pp.
CODEN: CPXXEB
PY 2005

L8 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
TI Modulating effects of Japanese food materials on human brain function
AU Hatakeyama, Eiko
SO Nippon Eiyo, Shokuryo Gakkaishi (2005), 58(2), 107-111
CODEN: NESGDC; ISSN: 0287-3516
PY 2005

L8 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
TI Method for enhancing the natural reward system for exercise
IN Halevie-Goldman, Brian D.
SO U.S. Pat. Appl. Publ., 9 pp.
CODEN: USXXCO
PY 2004

L8 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
TI Oral composition for suppressing the appetite of a human being comprising L-theanine
IN Spiegel, Peter
SO U.S. Pat. Appl. Publ., 4 pp.
CODEN: USXXCO
PY 2004

L8 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
TI Composition comprising theanine
IN Ueda, Tomoko; Nagato, Yukiko; Tanaka, Yukiko; Okubo, Tsutomu; Kobayashi, Kanari; Aoi, Nobuyuki; Shu, Seiji; Juneja, Lekh Raj
SO PCT Int. Appl., 36 pp.
CODEN: PIXXD2
PY 1999
2001
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L8 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
TI Effect of potassium, magnesium and sulfur applied in different forms of fertilizers on free amino acid content in leaves of tea (*Camellia sinensis* L.)
AU Ruan, Jianyun; Wu, Xun; Ye, Yong; Hardter, Rolf
SO Journal of the Science of Food and Agriculture (1998), 76(3), 389-396
CODEN: JSFAAE; ISSN: 0022-5142
PY 1998

L8 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
TI Suitable level of nitrogen fertilizer for tea (*Camellia sinensis* L.) plants in relation to growth, photosynthesis, nitrogen uptake, and accumulation of free amino acids
AU Okano, Kunio; Chutani, Koji; Matsuo, Kiyoshi
SO Nippon Sakumotsu Gakkai Kiji (1997), 66(2), 279-287
CODEN: NISAAJ; ISSN: 0011-1848
PY 1997

L8 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
TI Relation between the flavor depressor and chemical composition in summer green tea
AU Nakagawa, Muneyuki; Anan, Toyomasa; Takayanagi, Hirotsugu
SO Chagyo Gijutsu Kenkyu (1978), (55), 71-7
CODEN: CHGKAV; ISSN: 0366-6123
PY 1978

L8 ANSWER 12 OF 16 MEDLINE on STN
TI Effects of theanine on alcohol metabolism and hepatic toxicity.
AU Sadzuka Yasuyuki; Inoue Chieko; Hirooka Saho; Sugiyama Tomomi; Umegaki Keizo; Sonobe Takashi
SO Biological & pharmaceutical bulletin, (2005 Sep) Vol. 28, No. 9, pp. 1702-6.
Journal code: 9311984. ISSN: 0918-6158.
PY 2005

L8 ANSWER 13 OF 16 MEDLINE on STN
TI Glutamate transporter mediated increase of antitumor activity by theanine, an amino acid in green tea.
AU Sadzuka Yasuyuki; Yamashita Yasuyo; Kishimoto Shuichi; Fukushima Shoji; Takeuchi Yoshikazu; Sonobe Takashi
SO Yakugaku zasshi : Journal of the Pharmaceutical Society of Japan, (2002 Nov) Vol. 122, No. 11, pp. 995-9.
Journal code: 0413613. ISSN: 0031-6903.
PY 2002

L8 ANSWER 14 OF 16 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Behavioural effects of caffeine and theanine alone and in combination.
AU Haskell, C. F. [Reprint Author]; Kennedy, D. O.; Milne, A. L.; Wesnes, K. A.; Scholey, A. R.
SO Journal of Psychopharmacology, (SEP 2005) Vol. 19, No. 5, Suppl. S, pp. A45.
Meeting Info.: Summer Meeting of the British-Association-for-Psychopharmacology. Harrogate, ENGLAND. July 24 -27, 2005. British Assoc Psychopharmacol.
CODEN: JOPSEQ. ISSN: 0269-8811.
PY 2005

L8 ANSWER 15 OF 16 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI Effects of theanine on the release of brain alpha wave in adult males.
AU Kim, Kyung-Soo [Reprint Author]; Song, Chan Hee; Oh, Han Jin
SO FASEB Journal, (2004) Vol. 18, No. 4-5, pp. Abst. 370.11.
http://www.fasebj.org/. e-file.
Meeting Info.: FASEB Meeting on Experimental Biology: Translating the
Genome. Washington, District of Columbia, USA. April 17-21, 2004. FASEB.
ISSN: 0892-6638 (ISSN print).
PY 2004

L8 ANSWER 16 OF 16 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI EXCITATORY AMINO ACID RECEPTORS AND NEUROTOXINS OF PLANT ORIGIN.
AU SHINOZAKI H [Reprint author]
SO Shinkei Kenkyu No Shinpo, (1991) Vol. 35, No. 4, pp. 600-612.
CODEN: SKNSAF. ISSN: 0001-8724.
PY 1991

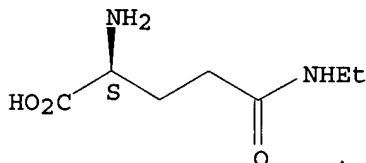
=> s suicide or retardat?
L9 312629 SUICIDE OR RETARDAT?

=> s 12 and 19
L10 0 L2 AND L9

=>

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
RN 3081-61-6 REGISTRY
ED Entered STN: 16 Nov 1984
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OTHER CA INDEX NAMES:
CN Glutamine, N-ethyl-, L- (6CI, 7CI, 8CI)
OTHER NAMES:
CN L-Theanine
CN NSC 21308
CN Suntheanine
CN Theanin
CN Theanine
FS STEREOSEARCH
MF C7 H14 N2 O3
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, CA, CABA,
CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CSCHEM, IPA, MEDLINE,
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(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (+).



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